明治十九年六月刊行

明治十九年三月廿三日出版届濟

定價金拾三錢

觀象臺長	海軍大尉	磯野健 閲
觀測士	海軍中尉	山崎喜勝
觀測助手	海軍一等技手	中川將行
同	海軍二等技手	伊藤直温
同	海軍屬	岩間侃次郎
同	海軍八等技手	小澤兼藏
同	海軍屬	日比翁輔
同	海軍屬	白井正信

(Signed) Director.
K. Isono.

Observer.
Y. Yamazaki.

Assistant.
M. Nakagawa.
„ N. Itō.
„ K. Iwama.
„ K. Ozawa.
„ O. Hibi.
„ M. Shirai.

REMARKS.

Day.

1 C; R. about 3.50 p.m.
2 Fine & pleasant in a.m., L. on the north, about 2.30 a.m., R. at intervals, p.m., *r.b.* on the south, about 6.35 p.m., S.W. w_3 6 a.m.—1 p.m.
3 Fine & pleasant.
4 C; R. at intervals, from 6 a.m.
5 C; R. at intervals, from 6 a.m., E. about 4.57 p.m., S. or S.W. w_2 from 10 a.m.
6 R. from about 4 a.m.
7 R. in a.m., C. in p.m., Barometer especially falls.
8 Fine & pleasant in a.m., B.C. in p.m., E. about 10.10 p.m.
9 Fine & pleasant; R. past 5 a.m., Dull from about 10 p.m.
10 Dull; Fine & pleasant from 6 a.m.
11 Fine & pleasant; F. about 6 a.m., *l.h.* about 8 p.m., S. or S.W. w_2 from 10 a.m.
12 Fine, but dull; M. in this morning; *l.h.* past 8 p.m.
13 Fine, but dull; S. or S.W. w_3 from 7 a.m.
14 Cloudy, with rain at intervals; *l.h.* about 8.30 p.m.
15 Dull in a.m., M. past 4 a.m., B. in p.m., *l.h.* past 8 p.m., M. from about 10.30 p.m.
16 M. to past 4 a.m., E. about 9.05 a.m., C.
17 Dull; *l.h.* past 10 p.m.
18 Dull; M in this morning; R. from about 1.17 p.m., E. about 8.10 p.m.
19 R. to past 4 p.m. C.
20 Fine, but dull; E. about 2.30 a.m.
21 C; R. at intervals, from past 2 a.m.
22 Dull in a.m., B.C. in p.m., E. or N.E. w_2 from 6 a.m.
23 R. about 1 a.m. — about 2 a.m., R. from about 9.50 a.m., N. w_2 in all day.
24 R. to about 1.10 a.m., C; S. or S.W. w_2 11 a.m.— 7 p.m.
25 Fine, but dull.
26 Clearing from about 7 a.m., Dull in p.m. R. from about 11.35 p.m.
27 R. to about 1.30 a.m., R. at intervals, from past 9 a.m.
28 Cloudy, with rain at intervals.
29 Fine & pleasant.
30 Dull; M. in this morning; E. about 8.45 p.m.
31 C; R. from 7 a.m.

記事

一日 陰天午後三時五十分頃微雨シ暫時ニシテ歇ム

二日 午前快晴同二時三十分頃北方ニ雷光顯ハレ午後時々降雨同六時三十五分頃南方ニ斷虹薄現シ午前六時ヨリ午後一時マテ南西強風

三日 快晴

四日 陰天午前六時後時々微雨ス

五日 陰天午前六時後時々微雨午後四時五十七分頃地輕震シ午前十時ヨリ南或南西風稍強

六日 午前四時頃ヨリ降雨

七日 午前降雨午後陰天此日風雨鹹殊ニ降下ス

八日 午前快晴午後半晴同十時十分頃地震ス

九日 快晴午前五時過暫時疎雨シ午後十時頃ヨリ薄陰

十日 薄陰午前六時後快晴

十一日 快晴午前六時頃薄霧アリ午後八時頃月暈ヲ帶ヒ午前十時ヨリ南或南西風稍強

十二日 薄晴今曉濃霧アリ午後八時過月薄暈ヲ帶フ

十三日 薄晴午前七時ヨリ南或南西強風

十四日 陰天時々降雨午後八時三十分頃月暈ヲ帶フ

十五日 午前薄陰同四時過濃霧アリ午後晴同八時過月暈ヲ帶ヒ同十時三十分頃ヨリ靄霧再ヒ起ル

十六日 昨夜來ノ靄霧今午前四時過ニ至リ漸々消散シ同九時六分頃地震シ爾後薄陰

十七日 薄陰午後十時過月薄暈ヲ帶フ

十八日 薄陰拂曉濃霧起ル午後一時十七分頃ヨリ降雨同八時十分頃地震ス

十九日 續テ降雨午後四時過歇ミ爾後陰天

二十日 薄晴午前二時三十分頃地震ス

廿一日 陰天午前二時過ヨリ時々降雨

廿二日 午前薄陰午後半晴午前六時ヨリ東或北東風稍強

廿三日 午前一時頃ヨリ細雨同二時頃歇ミ同九時五十分頃ヨリ再ヒ降雨此日北風稍強

廿四日 午前一時十分頃宿雨歇ミ爾後陰天午前十一時ヨリ午後七時マテ南或南西風稍強

廿五日 薄晴

廿六日 午前七時頃ヨリ漸々快晴午後薄陰同十一時三十五分頃ヨリ降雨

廿七日 午前一時三十分頃雨歇ミ同九時過ヨリ再ヒ時々微雨ス

廿八日 陰天時々降雨

廿九日 快晴

三十日 薄陰拂曉濃霧アリ午後八時四十五分頃地輕震ス

卅一日 陰天午前七時頃ヨリ降雨

地平磁針力
HORIZONTAL INTENSITY.

10th Beginning / Ending time $1^h\ 30^m$ / 4 10 P. M.

十日午後一時三十分ヨリ同四時十分ニ至ル

偏針角 Deflections.

磁氣 Mag.	北端 North end.	No.	A	B	Mean.	No.	A	B	Mean
			° ′ ″	′ ″	′ ″		° ′ ″	′ ″	′ ″
東 East.	E.	1	26 0 0	59 0	59 20				
	W.					2	19 17 0	16 20	16 40
	E.	3	26 0 0	59 20	59 40				
	W.					4	19 16 40	16 20	16 30
	E.	5	26 0 0	59 0	59 30				
平均 Means 25° 59′ 33″.3						………… 19° 16′ 35″.0			
西 West.	W.					6	19 13 40	13 0	13 20
	E.	7	25 55 20	54 40	55 0				
	W.					8	19 14 0	13 40	13 50
	E.	9	25 55 40	55 20	55 30				
	W.					10	19 15 0	14 0	14 30
平均 Means. 25° 55′ 15″.0						………… 19° 13′ 53″.3			

平均温度 Mean Temperature t = 65°.8 fah.

偏針角 Angle of Deflection u = 3° 21′ 5″.0

搖振時 Oscillations.

振數 No. of Osc.	測時 Time.	温度 Temp.	尺度兩端之視閲數 Extreme. Scale-readings.		百振之時 Time of 100 Oscillations.
	h m s	°			m s
0	3 56 6.5	66.3	2.0	57.5	
10	56 50.9				
20	57 35.0				
31	58 23.2				
41	59 7.3				
51	59 51.8				
100	4 3 29.3				7 22.8
110	4 13.5				22.6
120	4 58.0				23.0
131	5 45.8				22.6
141	6 30.0				22.7
151	7 14.3	65.5	16.5	43.5	22.5
平均 Means.		65.9	……………………		7 22.70

拗捩差 Mean effect of 90° of Torsion v = 2.13

時儀日差 Daily rate s = 5^s.18 losing.

成果 Resulting absolute value X = 6.3186

22nd Beginning / Ending time $2^h\ 30^m$ / 3 50 P. M.

廿二日午後二時三十分ヨリ同三時五十分ニ至ル

偏針角 Deflections.

磁氣 Mag.	北端 North end.	No.	A	B	Mean.	No.	A	B	Mean.
			° ′ ″	′ ″	′ ″		° ′ ″	′ ″	′ ″
東 East.	E.	1	179 33 20	32 40	33 0				
	W.					2	172 55 40	55 0	55 20
	E.	3	179 33 20	32 40	33 0				
	W.					4	172 55 20	54 40	55 0
	E.	5	179 33 20	32 40	33 0				
平均 Means. 179° 33′ 0″.0						………… 172° 55′ 10″.0			
西 West.	W.					6	172 50 40	50 0	50 20
	E.	7	179 27 30	26 40	27 5				
	W.					8	172 51 0	50 20	50′ 40
	E.	9	179 27 40	26 50	27 15				
	W.					10	172 51 0	50 10	50 35
平均 Means. 179° 27′ 10″.0						………… 172° 50′ 31″.7			

平均温度 Mean Temperature t = 65°.0 fah.

偏針角 Angle of Deflection u = 3° 18′ 37.″1

搖振時 Oscillations.

振數 No. of Osc.	測時 Time.	温度 Temp.	尺度兩端之視閲數 Extreme Scale-readings.		百振之時 Time of 100 Oscillations.
	h m s	°			m s
0	3 35 23.1	64.2	0.3	60.0	
10	36 7.5				
20	36 52.0				
31	37 40.9				
41	38 25.1				
51	39 10.0				
100	42 48.2				7 25.1
110	43 32.3				24.8
120	44 17.0				25.0
131	45 6.3				25.4
141	45 51.0				25.9
151	46 35.1	64.6	14.1	45.9	25.1
平均 Means.		64.4	……………………		7 25.22

拗捩差 Mean effect of 90° of Torsion v = 1.98

時儀日差 Daily rate s = 8^s.22 gaining.

成果 Resulting absolute value X = 6.3286

磁氣觀測之月報
東京海軍觀象臺

MONTHLY REPORT OF THE MAGNETICAL OBSERVATIONS,
NAVAL OBSERVATORY, TOKIO.

磁氣偏差
Magnetic Declination.

Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′
1	4 4.1	5	4 4.3	9	4 1.3	13	4 5.5	17	4 6.1	21	4 4.4	25	4 5.1	29	4 4.6
2	4 2.4	6	4 2.7	10	4 7.0	14	4 4.9	18	4 7.1	22	4 6.9	26	4 3.9	30	4 3.0
3	4 4.5	7	4 3.7	11	4 7.4	15	4 4.4	19	4 6.2	23	4 3.3	27	4 6.1	31	4 3.5
4	4 5.2	8	4 3.2	12	4 4.9	16	4 6.0	20	4 4.4	24	4 3.0	28	4 3.8		

平均 Mean = 4° 4′.61

磁氣傾差
Magnetic Inclination.

10th Beginning / Ending time $4^h\ 30^m$ / 5 50 P. M. 十日午後四時三十分ヨリ同五時五十分ニ至ル

極端 A Polarity of Marked end A.								極端 B Polarity of Marked end B.							
東面圈 Circle E.				西面圈 Circle W.				西面圈 Circle W.				東面圈 Circle E.			
東面針 Face E.		西面針 Face W.		東面針 Face E.		西面針 Face W.		西面針 Face W.		東面針 Face E.		西面針 Face W.		東面針 Face E.	
A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
50 8	50 5	49 53	49 50	50 0	49 59	48 55	49 3	50 26	50 24	48 50	48 49	50 33	50 35	49 55	49 56
50 10	50 10	49 52	49 49	50 3	49 58	49 0	49 0	49 59	49 57	48 51	48 52	50 33	50 35	49 55	49 52
50 9.0	50 7.5	49 52.5	49 49.5	50 1.5	49 58.5	48 57.5	49 1.5	50 12.5	50 10.5	48 50.5	48 50.5	50 33.0	50 35.0	49 55.0	49 54.0
50 8.2		49 51.0		50 0.0		48 59.5		50 11.5		48 50.5		50 34.0		49 54.5	
49 59.6				49 29.8				49 31.0				50 14.2			
49 44.7								49 52.6							

成果 Resulting Dip = 49° 48′.7

22nd Beginning / Ending time $4^h\ 10^m$ / 4 50 P. M. 廿二日午後四時十分ヨリ同時五十分ニ至ル

極端 A Polarity of Marked end A.								極端 B Polarity of Marked end B.							
東面圈 Circle E.				西面圈 Circle W.				西面圈 Circle W.				東面圈 Circle E.			
東面針 Face E.		西面針 Face W.		東面針 Face E.		西面針 Face W.		西面針 Face W.		東面針 Face E.		西面針 Face W.		東面針 Eace E.	
A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
50 1	49 59	50 32	50 30	49 23	49 22	49 23	49 19	49 14	49 15	49 5	49 9	50 13	50 14	49 22	49 26
49 59	49 56	50 32	50 29	49 20	49 19	49 23	49 20	49 22	49 22	49 13	49 16	50 8	50 7	49 21	49 23
50 0.0	50 57.5	50 32.0	50 29.5	49 21.5	49 20.5	49 23.0	49 19.5	49 18.0	49 18.5	49 9.0	49 12.5	50 10.5	50 10.5	49 21.5	49 24.5
49 58.7		50 30.7		49 21.0		49 21.2		49 18.2		49 10.8		50 10.5		49 23.0	
50 14.7				49 21.1				49 14.5				49 46.7			
49 47.9								49 30.6							

成果 Resulting Dip = 49° 39′.3

天候 WEATHER.

日次 Date.	雲之種類 Kind of Cloud. 巻雲 Cirrus.	積雲 Cumulus	層雲 Stratus.	巻積雲 Cirro-Cumulus.	巻層雲 Cirro-Stratus	積層雲 Cumulo-Stratus.	巻積層雲 Cirro-Cumulo-Stratus.	降雨 Rain.	降雪 Snow.	靄霧 Fog	全晴 Clear.	陰部 Obscured part.	雨雪水量 Amount of Rain & Snow.
													in
1	...	...	...	5	...	...	...	3	...	...	...	7.5	0.62
2	...	...	...	5	...	...	...	1	...	...	2	2.4	...
3	3	1	...	2	...	...	...	...	...	...	2	1.9	0.09
4	...	2	...	4	...	...	...	2	...	...	...	10.0	...
5	...	3	...	4	...	...	...	1	...	...	...	10.0	...
6	...	1	...	...	...	...	...	7	...	...	...	10.0	0.37
7	...	...	...	4	...	...	...	4	...	...	...	9.4	2.12
8	...	...	...	8	...	...	...	...	...	...	...	4.0	...
9	...	4	...	4	...	...	...	...	...	...	...	7.5	...
10	4	1	...	3	...	...	...	...	...	...	...	3.9	...
11	...	...	...	8	...	...	...	...	...	...	...	2.6	...
12	...	...	...	8	...	...	...	...	...	...	...	8.1	...
13	...	...	...	8	...	...	...	...	...	...	...	7.9	...
14	...	...	...	1	2	...	2	3	...	...	...	9.4	0.03
15	2	...	...	4	...	...	...	...	...	2	...	5.0	...
16	...	...	...	7	...	...	...	...	...	1	...	8.5	...
17	1	1	...	5	1	...	...	...	...	...	...	6.4	...
18	...	...	...	3	...	...	1	4	...	...	...	10.0	...
19	...	...	...	3	...	...	...	5	...	...	...	9.1	0.68
20	...	...	...	8	...	...	...	...	...	...	...	6.8	0.39
21	...	...	...	5	...	...	1	2	...	...	...	9.9	0.08
22	...	...	...	6	...	2	...	...	...	...	...	7.6	0.07
23	...	1	...	1	...	...	1	5	...	...	...	10.0	...
24	...	...	...	6	...	1	1	...	...	...	...	8.1	0.68
25	...	...	...	8	...	...	...	...	...	...	...	8.3	...
26	1	...	...	6	...	...	...	1	...	...	...	7.1	...
27	...	2	...	3	...	1	...	2	...	...	...	10.0	0.19
28	...	...	...	...	...	1	4	2	...	...	1	6.5	1.78
29	...	...	...	8	...	...	...	...	...	...	...	3.4	0.01
30	...	1	...	6	...	...	1	...	...	...	...	8.9	...
31	...	2	...	...	...	...	...	6	...	...	...	10.0	...
合計 Sums.	11	19	...	143	3	5	11	48	...	3	5	...	7.11
平均 Means.	...	...	...	...	...	...	...	...	...	...	...	7.4	...

風 WIND.

日次 Date.	平穩時數 Hours of Calm.	北 N. 時數 Number of Hours.	北 N. 速力 Number of Miles.	北東 N.E. 時數 Number of Hours.	北東 N.E. 速力 Number of Miles.	東 E. 時數 Number of Hours.	東 E. 速力 Number of Miles.	南東 S.E. 時數 Number of Hours.	南東 S.E. 速力 Number of Miles.	南 S. 時數 Number of Hours.	南 S. 速力 Number of Miles.	南西 S.W. 時數 Number of Hours.	南西 S.W. 速力 Number of Miles.	西 W. 時數 Number of Hours.	西 W. 速力 Number of Miles.	北西 N.W. 時數 Number of Hours.	北西 N.W. 速力 Number of Miles.	合計 Total. 時數 Number of Hours.	合計 Total. 速力 Number of Miles.	最強 Strongest. 方位 Directions.	最強 Strongest. 速力 Miles.
1	...	6	73.4	...	...	1	2.8	2	14.1	6	89.1	2	41.6	...	...	7	66.3	24	287.3	S.	21.7
2	...	...	...	1	6.0	6	45.3	2	5.5	2	39.7	11	217.8	...	...	2	15.3	24	329.6	S.W.	22.5
3	...	6	48.9	2	10.2	6	56.8	1	9.1	3	24.4	...	...	...	...	6	48.1	24	197.5	E.	12.7
4	1	...	...	6	25.4	17	41.5	...	...	...	...	...	...	...	...	...	...	24	66.9	N.E.	6.3
5	...	...	...	...	...	...	...	4	15.4	17	254.5	3	52.1	...	...	...	...	24	322.0	S.	22.8
6	...	6	70.7	...	...	10	67.3	...	...	7	56.1	...	...	...	...	1	5.7	24	199.8	N.	15.4
7	...	10	57.9	8	46.5	2	10.8	...	...	...	...	...	...	...	...	4	16.6	24	131.8	N.	11.0
8	...	2	23.1	8	42.1	...	...	8	60.3	6	36.4	...	...	...	...	...	...	24	161.9	N. N.E.	11.7
9	...	...	...	3	20.6	14	105.0	2	19.9	5	12.1	...	...	...	...	...	...	24	157.6	E.	12.0
10	1	...	...	...	...	9	27.3	6	42.2	8	41.9	...	...	...	...	...	...	24	111.4	S.E.	8.7
11	...	...	...	...	...	...	...	...	...	20	199.8	4	54.3	...	...	...	...	24	254.1	S.	21.2
12	2	...	...	...	...	...	...	...	...	12	155.3	10	39.8	...	...	...	...	24	195.1	S.	16.8
13	...	...	...	...	...	...	...	...	...	16	382.8	8	130.2	...	...	...	...	24	513.0	S.	29.2
14	...	...	...	...	...	...	...	...	...	7	110.0	17	261.3	...	...	...	...	24	371.3	S.W.	30.9
15	3	...	...	...	...	...	...	6	32.1	2	11.3	13	17.7	...	...	...	...	24	61.1	S.	8.0
16	1	...	...	5	37.6	15	44.9	1	3.1	...	...	2	1.1	...	...	...	...	24	86.7	E.	8.7
17	1	...	...	8	21.6	3	13.1	2	16.3	10	34.4	...	...	...	...	...	...	24	85.4	S.E.	8.7
18	7	...	...	...	...	...	...	14	42.6	3	4.4	...	...	...	...	...	...	24	47.0	S.E.	7.6
19	3	7	95.3	5	39.6	...	...	1	2.0	...	...	...	...	...	...	8	67.0	24	203 9	N.	17.8
20	...	1	5.9	...	...	...	...	2	13.7	11	111.9	...	...	...	...	10	11.1	24	142.6	S.	14.3
21	1	10	17.7	...	...	...	...	...	...	...	...	9	50.8	2	6.7	2	6.9	24	82.1	S.W.	12.2
22	...	6	43.8	16	248.8	2	27.4	...	...	...	...	...	...	...	...	...	...	24	320.0	N.E.	21.7
23	...	24	309.6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	24	309.6	N.	18.3
24	1	4	6.1	...	...	...	...	...	...	3	39.9	13	138.8	3	...	...	...	24	187.1	S.	22.1
25	...	1	7.9	2	22.9	11	86.0	1	8.2	...	...	6	15.2	...	2.3	3	15.1	24	155.3	N.E.	11.7
26	...	...	...	10	46.1	...	...	14	92.4	...	...	...	...	...	...	...	...	24	138.5	S.E.	13.0
27	...	...	...	15	115.0	9	37.0	...	...	...	...	...	...	...	...	...	...	24	152.0	N.E.	12.5
28	...	9	124.6	13	92.0	...	...	...	...	...	...	...	...	...	...	2	12.7	24	229.3	N.	17.3
29	2	...	...	9	19.2	1	2.9	12	55.4	...	...	...	...	...	...	...	...	24	77.5	S.E.	7.9
30	4	...	...	...	...	...	...	8	24.9	3	22.9	9	56.8	...	...	...	...	24	114.6	S.	11.4
31	...	1	7.2	2	12.3	2	14.4	...	...	9	48.6	10	53.2			...	...	24	135.7	S.	10.8
合計 Sums.	27	93	892.1	113	805.9	108	582.5	86	457.2	150	1685.5	117	1130.7	5	9.0	45	264.8	744	5827.7	..	...
極強 Max.	...	..	...	..	...	..	...	..	...	..	...	..	...	..	...	..	...	..	...	S.W.	30.9

濕氣百分數

HUMIDITY.

(Saturation = 100)

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
1	99	99	96	78	84	94	68	71
2	62	65	52	48	53	74	76	90
3	75	65	50	49	41	48	67	61
4	72	79	81	79	75	78	83	87
5	94	87	86	81	76	76	82	75
6	94	98	99	94	91	94	93	98
7	100	98	96	94	89	82	94	94
8	80	74	56	57	55	64	73	73
9	87	76	63	62	56	64	79	85
10	83	87	67	61	55	65	81	87
11	93	95	75	70	69	82	80	85
12	94	92	81	61	62	69	82	76
13	79	70	53	60	60	91	80	76
14	73	78	88	85	79	82	91	94
15	94	100	74	54	45	71	84	100
16	96	89	45	46	47	71	86	93
17	94	83	64	62	41	71	88	95
18	99	99	83	76	75	84	88	94
19	97	97	100	97	94	85	94	97
20	95	95	84	75	74	81	82	86
21	93	94	87	89	74	85	82	88
22	80	80	63	59	61	72	75	79
23	79	73	75	86	98	98	98	98
24	99	96	91	65	61	77	87	87
25	96	89	75	55	57	69	78	79
26	81	85	62	54	57	73	81	94
27	96	92	89	77	72	85	89	92
28	98	100	87	82	85	76	85	88
29	96	90	68	71	65	60	89	94
30	94	95	81	71	68	71	93	93
31	93	91	86	95	92	94	96	100
平均 Means.	89	87	76	71	68	77	84	87

日次 Date.	蒸發力 ELASTIC FORCE OF VAPOUR.							
	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	in	in	in	in	in	in	in	in
1	0.358	0.369	0.415	0.482	0.507	0.524	0.381	0.389
2	0.319	0.313	0.327	0.330	0.362	0.388	0.317	0.327
3	0.258	0.243	0.276	0.339	0.269	0.274	0.323	0.286
4	0.313	0.321	0.349	0.377	0.393	0.410	0.419	0.436
5	0.477	0.470	0.489	0.483	0.472	0.453	0.473	0.456
6	0.520	0.475	0.511	0.487	0.485	0.409	0.388	0.385
7	0.385	0.370	0.379	0.399	0.415	0.427	0.422	0.391
8	0.296	0.260	0.293	0.348	0.367	0.389	0.379	0.369
9	0.403	0.339	0.324	0.403	0.386	0.321	0.299	0.324
10	0.312	0.323	0.331	0.348	0.355	0.367	0.393	0.386
11	0.388	0.358	0.454	0.491	0.487	0.498	0.483	0.480
12	0.451	0.470	0.520	0.516	0.492	0.469	0.472	0.441
13	0.443	0.410	0.401	0.475	0.439	0.503	0.503	0.479
14	0.480	0.489	0.570	0.574	0.578	0.566	0.562	0.548
15	0.526	0.541	0.592	0.509	0.456	0.592	0.588	0.564
16	0.558	0.529	0.379	0.375	0.465	0.496	0.545	0.522
17	0.467	0.407	0.472	0.545	0.413	0.554	0.556	0.562
18	0.572	0.572	0.568	0.562	0.546	0.518	0.472	0.434
19	0.441	0.441	0.482	0.492	0.505	0.500	0.491	0.479
20	0.541	0.541	0.578	0.626	0.666	0.607	0.560	0.596
21	0.613	0.622	0.635	0.639	0.666	0.657	0.603	0.550
22	0.467	0.412	0.339	0.331	0.321	0.318	0.289	0.296
23	0.296	0.275	0.302	0.375	0.427	0.441	0.431	0.428
24	0.434	0.441	0.482	0.514	0.524	0.522	0.507	0.487
25	0.496	0.479	0.498	0.454	0.483	0.487	0.427	0.410
26	0.393	0.406	0.407	0.427	0.428	0.465	0.480	0.511
27	0.516	0.491	0.492	0.479	0.475	0.487	0.479	0.464
28	0.475	0.465	0.470	0.480	0.479	0.430	0.403	0.375
29	0.375	0.379	0.406	0.465	0.462	0.415	0.489	0.479
30	0.485	0.485	0.526	0.568	0.522	0.514	0.537	0.533
31	0.554	0.543	0.535	0.552	0.516	0.524	0.511	0.518
平均 Means.	0.439	0.427	0.445	0.466	0.463	0.469	0.457	0.449

露點温度

DEW POINT.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	°	°	°	°	°	°	°	°
1	49.8	50.6	53.8	58.0	59.4	60.3	51.5	52.1
2	46.7	46.2	47.3	47.6	50.1	52.0	46.5	47.3
3	41.1	39.6	42.9	48.3	42.2	42.7	47.0	43.8
4	46.2	46.8	49.1	51.2	52.3	53.5	54.1	55.2
5	57.7	57.3	58.4	58.1	57.4	56.2	57.5	56.4
6	60.1	57.6	59.6	58.3	58.2	53.4	52.0	51.8
7	51.8	50.7	51.4	52.7	53.8	54.6	54.3	52.2
8	44.7	41.3	44.4	49.0	50.5	52.1	51.4	50.6
9	53.0	48.3	47.1	53.0	51.9	46.8	45.0	47.1
10	46.1	47.0	44.7	49.0	49.5	50.5	52.3	51.9
11	52.0	49.3	56.3	58.5	58.3	58.9	58.1	57.9
12	56.1	57.3	60.1	59.9	58.6	57.2	57.4	55.5
13	55.6	53.5	52.9	57.6	55.4	59.2	59.2	57.8
14	57.9	58.4	62.7	62.9	63.1	62.5	62.3	61.6
15	60.4	61.2	63.8	59.5	56.4	63.8	63.6	62.4
16	62.1	60.6	51.4	51.1	57.0	58.8	61.4	60.2
17	57.1	53.3	57.4	61.4	53.7	61.9	62.0	62.3
18	62.8	62.8	62.6	62.3	61.5	60.0	57.4	55.1
19	55.5	55.5	58.0	58.6	59.3	59.0	58.5	57.8
20	61.2	61.2	63.1	65.4	67.2	64.5	62.2	64.0
21	64.8	65.2	65.8	66.0	67.2	66.8	64.3	61.7
22	57.1	53.6	48.3	47.7	46.8	46.6	44.1	44.7
23	44.7	42.8	45.2	51.1	54.6	55.5	54.9	54.7
24	55.1	55.5	58.0	59.8	60.3	60.2	59.4	58.3
25	58.8	57.8	58.9	56.3	58.1	58.3	54.7	53.5
26	52.3	53.2	53.3	54.6	54.7	57.0	57.9	59.6
27	59.9	58.5	58.6	57.8	57.6	58.3	57.8	56.9
28	57.6	57.0	57.3	57.9	57.8	54.8	53.0	51.1
29	51.1	51.4	53.2	57.0	56.8	53.8	58.4	57.8
30	58.2	58.2	60.4	61.2	60.2	59.8	61.0	60.8
31	61.9	61.3	60.9	61.8	59.9	60.3	59.6	60.0
平均 Means.	54.8	54.0	55.1	56.6	56.4	56.8	56.1	55.6

寒暑鍼 THERMOMETER.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	°	°	°	°	°	°	°	°
1	50.2	51.0	55.0	65.0	64.4	62.2	62.3	61.8
2	59.7	58.0	65.0	68.6	68.0	60.3	54.0	50.0
3	48.8	51.2	61.5	68.0	67.0	62.5	58.0	57.0
4	55.0	53.2	55.0	57.5	60.2	60.2	59.0	59.0
5	59.6	61.0	63.0	64.0	65.1	63.9	63.0	64.4
6	62.0	58.4	60.0	59.8	61.0	55.2	54.0	52.2
7	52.0	51.3	52.8	54.5	57.4	60.1	56.3	53.8
8	50.8	49.4	60.3	64.5	67.5	64.4	59.8	59.1
9	56.8	55.5	59.7	66.5	68.0	59.0	51.2	51.2
10	50.8	50.9	58.6	62.8	66.2	62.4	58.0	55.7
11	54.0	50.7	64.5	68.8	68.8	64.4	64.1	62.2
12	58.0	59.6	66.0	74.0	72.5	67.9	63.1	63.1
13	62.3	63.5	71.0	72.1	70.0	62.0	65.5	65.5
14	66.7	65.2	66.3	67.6	69.8	68.1	65.0	63.1
15	61.9	61.2	72.5	77.3	79.5	73.8	66.8	62.6
16	63.0	64.0	68.8	73.5	74.0	68.8	65.5	62.6
17	59.0	58.2	70.2	75.2	79.0	72.8	65.8	63.8
18	63.0	63.0	68.0	70.3	69.8	65.1	60.1	57.0
19	56.5	56.5	58.0	59.4	60.8	63.3	60.0	58.8
20	62.5	62.5	68.1	74.0	76.0	71.0	68.0	68.1
21	67.0	67.0	70.0	69.5	76.0	71.9	70.1	65.5
22	63.5	60.1	61.8	62.5	60.5	55.6	52.0	51.2
23	51.0	51.0	52.8	55.0	55.0	56.1	55.5	55.3
24	55.3	56.7	60.7	72.0	75.0	67.8	63.1	62.0
25	60.1	61.0	67.0	73.7	74.0	69.0	61.8	60.0
26	58.0	58.0	66.8	72.5	71.0	66.0	63.8	61.5
27	61.0	60.8	62.0	65.1	67.0	63.1	61.0	59.0
28	58.0	57.0	61.0	63.4	62.2	62.8	57.6	54.5
29	52.3	54.6	63.8	66.7	69.3	68.3	61.8	59.5
30	59.9	59.5	66.5	72.5	71.2	67.0	63.2	63.0
31	63.9	64.0	65.0	63.3	62.8	61.8	60.5	60.0
平均 Means.	58.1	57.9	63.3	67.1	68.0	64.4	61.0	59.4

改正風雨鍼

BAROMETER.

Reduced to 32° F. and sea level.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	in	in	in	in	in	in	in	in
1	29.968	29.935	29.872	29.796	29.726	29.690	29.692	29.683
2	29.668	29.697	29.693	29.674	29.672	29.706	29.809	29.852
3	29.858	29.921	29.981	29.997	29.988	30.032	30.149	30.171
4	30.167	30.179	30.202	30.206	30.148	30.132	30.141	30.083
5	30.025	29.951	29.950	29.840	29.778	29.756	29.770	29.725
6	29.699	29.673	29.640	29.679	29.677	29.745	29.803	29.754
7	29.655	29.632	29.556	29.577	29.559	29.636	29.745	29.787
8	29.841	29.914	29.950	29.968	29.969	30.007	30.101	30.115
9	30.120	30.202	30.216	30.191	30.169	30.197	30.289	30.287
10	30.283	30.282	30.301	30.261	30.206	30.200	30 224	30.221
11	30.195	30.220	30.204	30 141	30.096	30.072	30.059	30.067
12	30.068	30.084	30.120	30.083	30.043	30.044	30.065	30.047
13	30.029	30.020	30.027	30.002	29.956	29.935	29.931	29.867
14	29.848	29.884	29.956	29.915	29.871	29.889	29.915	29.966
15	29.953	30.028	30.037	30.008	29.960	29.944	30.025	30.049
16	30.038	30.108	30.113	30.106	30.060	30.049	30.057	30.061
17	30.016	30.006	29.996	29.965	29.927	29.930	29.953	29.978
18	29.940	30.008	30.046	30.051	30.012	30.005	30.039	30.038
19	29.985	29.944	29.912	29.823	29.750	29.730	29.754	29.765
20	29.713	29.747	29.751	29.724	29.666	29.673	29.673	29.602
21	29.599	29.560	29.567	29.578	29.573	29.627	29.722	29.809
22	29.865	29.965	30 056	30.102	30.106	30.161	30.183	30.158
23	30.123	30.073	30.029	29.888	29.811	29.809	29.772	29.712
24	29.667	29.677	29.671	29.620	29.604	29.632	29.678	29.726
25	29.733	29.806	29.846	29.852	29.845	29.919	29.995	30.038
26	30 075	30.120	30.135	30.095	30.085	30.114	30.138	30.125
27	30.121	30.097	30.112	30.079	30.053	30.059	30.057	30.053
28	29.992	30.035	30.051	30.054	30.055	30.055	30.099	30.107
29	30.100	30.110	30.130	30.104	30.052	30.061	30.104	30.087
30	30.027	30.084	30.062	30.003	29.950	29.935	29.957	29.935
31	29.859	29.853	29.849	29.817	29.759	29.701	29.656	29.620
平均 Means.	29.943	29.962	29.969	29.942	29.907	29.918	29.953	29.951

氣象觀測之月報

東京海軍觀象臺

MONTHLY REPORT

OF THE

METEOROLOGICAL OBSERVATIONS,

NAVAL OBSERVATORY, TOKIO.

Lat. 35° 39′ 17″5 N. Long. 139° 44′ 30″3 E. Height above sea-level 70 feet.

日次 Date.	改正風雨鍼 Barometer. Reduced to 32 F. & sea level. 平均 Mean.	高極 Max.	低極 Min.	寒暑鍼 Thermometer. 平均 Mean.	高極 Max.	低極 Min.	露點温度 平均 Mean Temp. of Dew point.	蒸發力 平均 Mean elastic force of Vapour.	濕氣百分數 平均 Mean Humidity (Sat.=100).	無氣中日温度 高極 Vacuum solar radiation Max.	日温度 高極 Solar radiation Max.	地温度 低極 Terrestrial radiation Min.
	in	in	in	°	°	°	°	in		°	°	°
1	29.795	29.968	29.683	59.0	70.4	* 44.6	54.4	0.428	86	145.0	100.7	44.7
2	29.721	29.852	29.672	60.5	69.1	49.7	48.0	0.335	65	141.8	96.0	39.0
3	30.012	30.171	29.858	59.3	70.1	46.0	43.5	0.284	57	136.8	100.0	34.8
4	30.157	30.206	30.083	57.4	61.5	51.8	51.1	0.377	79	100.0	80.5	43.5
5	29.849	30.025	29.725	63.0	65.8	57.9	57.4	0.472	82	89.0	72.7	50.0
6	29.709	29.803	29.640	57.8	64.2	52.0	56.4	0.458	95	84.5	65.2	44.0
7	29.643	29.787	* 29.554	54.8	60.5	50.5	52.7	0.399	93	90.0	75.0	43.0
8	29.983	30.115	29.841	59.5	70.5	47.0	48.0	0.338	67	134.2	95.7	34.8
9	30.209	30.289	30.120	58.5	68.9	50.5	49.0	0.350	72	148.5	104.2	39.9
10	30.247	* 30.301	30.200	58.2	67.1	48.0	48.9	0.352	73	135.0	96.8	* 34.5
11	30.132	30.220	30.059	62.2	69.9	49.7	56.2	0.455	81	141.2	99.1	43.5
12	30.069	30.120	30.043	65.5	75.0	55.0	57.8	0.479	77	147.8	106.0	44.5
13	29.971	30.029	29.867	66.5	72.7	60.6	56.4	0.457	71	145.9	103.0	48.9
14	29.906	29.966	29.848	66.5	70.7	63.0	61.4	0.546	84	100.0	82.0	51.0
15	30.001	30.049	29.944	69.5	* 81.3	59.5	61.4	0.546	78	148.8	109.1	47.5
16	30.074	30.113	30.038	67.5	74.8	61.8	57.8	0.484	72	130.8	94.0	52.0
17	29.971	30.016	29.927	68.0	80.1	56.0	58.6	0.497	75	144.0	106.5	44.9
18	30.017	30.051	29.940	64.5	71.8	56.5	60.6	0.531	87	110.2	84.0	47.5
19	29.833	29.985	29.730	59.2	63.4	55.1	57.8	0.479	95	85.8	74.0	45.0
20	29.694	29.751	29.602	68.8	78.4	58.0	63.6	0.589	84	147.0	106.9	48.1
21	29.629	29.809	29.560	69.6	76.1	65.0	65.2	0.623	87	126.9	100.5	55.0
22	30.075	30.183	29.865	58.4	63.9	50.5	48.6	0.347	71	137.0	95.3	41.8
23	29.902	30.123	29.712	54.0	56.3	49.8	50.4	0.372	88	92.0	65.8	38.4
24	29.659	29.726	29.604	64.1	75.0	54.4	58.3	0.489	83	144.5	103.2	46.0
25	29.879	30.038	29.733	65.8	76.2	56.5	57.1	0.467	75	* 153.6	* 111.8	46.5
26	30.111	30.138	30.075	64.7	74.7	55.6	55.3	0.440	73	146.5	110.1	46.0
27	30.079	30.121	30.053	62.4	67.0	58.0	58.2	0.485	87	86.1	73.5	48.2
28	30.056	30.107	29.992	59.6	64.3	53.7	55.8	0.447	88	118.8	89.4	39.0
29	30.094	30.130	30.052	62.0	71.2	50.7	54.9	0.434	79	145.8	106.0	35.0
30	29.994	30.084	29.935	65.4	72.5	58.0	60.0	0.521	84	141.0	97.0	46.0
31	29.764	29.859	29.620	62.6	66.0	59.3	60.7	0.532	93	80.5	71.6	50.3
平均 Means.	29.943	...	...	62.4	...	...	55.7	0.452	80	...	...	...
至極 Max. & Min.	...	30.301	29.554	...	81.3	44.6	...	...	...	153.6	111.8	34.5

凡例

一風雨鍼ハ氷點及海面ニ改正ス

一寒暑鍼ハ都テ華氏ノ度表ヲ用フ

一露點、濕氣、蒸發力、ハ燥濕兩球寒暑鍼ノ實驗ヨリ算出ス

一風ノ方向及速力ハ自記驗風儀ヲ以テ之ヲ測ル而シテ方向ハ八點ニ分チ速力ハ英里ヲ以テ算ス

一天候ノ表中降雨、降雪、靄霧、雲ノ種類ハ悉皆觀望ノ時數ヲ掲ゲ陰部ハ一日間全陰ヲ十トシ他ハ之ニ比例ス

又雨雪ノ水積ハ毎午前九時ニ實驗シ英寸ヲ以テ之ヲ示ス

一磁氣偏差ハ逐日午前七時傾差ヲ及地平磁針力ハ逐月兩回之ヲ觀測ス

一此觀測ノ用器ハ偏差儀傾差儀及「ユーニフアイラ」磁氣儀ナリ

一偏針角ノ觀測ニ於テ兩磁氣中心ノ相距ハ一、三英尺トス

一搖振時ノ觀測ニ用フル磁氣ノ尺度一劃分ノ價ハ二分、三七ナリ

NOTE.

The Barometer readings are reduced to freezing point (32° F) and sea level.

Dew point, Humidity and Elastic force of Vapour are deduced from the readings of the dry and wet bulb thermometers.

Direction and Velocity of Wind are measured by Glayser's anemograph.

The numbers under the headings of Rain, Snow, Fog and the kinds of Cloud (C. K. S. N. or Rain) denote how many, out of eight observations made in a day, are either of them.

The portion of sky obscured is determined by estimation after a careful scrutiny of the clouds or sky. A clear sky is denoted by 0, and a total obscuration by 10.

The amount of Rain and Snow are measured at 9 a. m.

The Magnetic declination is observed at 7 a. m. every day, the inclination and the horizontal intensity twice a month, the instruments in use being Declinometer, Inclinometer, and Unifilar Magnetometer.

The apparent distance between the centers of the deflecting and the suspending magnets in the observation of deflection, $r = 1.3$ feet.

The angular value of one scale division of the vibration magnet = 2′.37.

晴天 B. (Blue Sky). 陰天 C. (Cloudy Weather). 濛雨 D. (Drizzling, or Light Rain).
地震 E. (Earthquake). 霧 F. (Fog). 暗黒 G. (Dark, gloomy). 霰 H. (Hail).
霜 H. F. (Hoar Frost). 電 L. (Lightning). 濃霧 M. (Misty). 陰雲 O. (Overcast).
驟雨 P. (Passing shower). 嵐 Q. (Squally). 雨 R. (Rain). 雪 S. (Snow). 雷 T. (Thunder).
天氣險惡ノ模樣 U. (Ugly, threatening). 天氣不定 V. (Variable Weather). 露 W. (Dew).
霞霧 Z. (Hazy). 日暈 *s. h.* (Solar Halo). 月暈 *l. h.* (Lunar Halo). 虹 *r. b.* (Rainbow).
風 *w* (Wind). The force of wind is expressed by w_1, w_2, &c, as w_1= slight, w_5= strongest.
快晴 *f. p.* (Fine and pleasant). 薄晴 *f. d.* (Fine, but dull). 薄陰 *d.* (Dull).

氣象及磁氣月報

東京

海軍水路部觀象臺

明治十九年五月

MONTHLY REPORT

OF THE

METEOROLOGICAL AND MAGNETICAL OBSERVATIONS,

DURING

MAY 1886,

AT THE

NAVAL OBSERVATORY,

IN THE

HYDROGRAPHIC OFFICE.

TOKIO.